

19.10.2000

Amended CLAIMS

8. Process for the decorative design of a coating layer on substrates which are selected from the group that consists of cladding panels, furniture, instrument casings, household appliances, sports equipment, automobile bodies and components thereof, vehicles and vehicle parts, characterised in that a curable coating agent is applied onto the substrate surface to be decorated and one or more embossing dies is/are pressed, in each case with its/their side exhibiting a relief characterised by amplitude maxima that are spaced from one another in the range from 100 to 20,000 nm, into the uncured coating layer at the place or places to be decorated, whereupon at least the regions that are covered by the embossing die or dies are at least partially cured, thereafter the embossing die or dies is/are removed and, in case places are present in the coating layer that are not yet cured, these are completely cured.

25 2. Process according to Claim 1, characterised in that
use is made of a coating agent which is capable of
being cured by irradiation with high-energy radiation
and of one or more embossing dies which are partially
or totally translucent in respect of the high-energy
30 radiation, whereupon at least the regions that are
covered by the embossing die or dies are irradiated
through the embossing die or dies with high-energy
radiation and thereafter the embossing die or dies
is/are removed and, in case places are present in the
35 coating layer that are not yet cured, these are
completely cured by high-energy radiation.

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3. Process according to Claim 2, characterised in that use is made of a coating agent which is capable of being cured by irradiation with light and curing is effected by irradiation with light.

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4. Process according to Claim 3, characterised in that irradiation is effected with light having a wavelength from 180 to 1,000 nm.

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5. Process according to Claim 1, characterised in that use is made of a coating agent which is capable of being cured by thermal means, at least the regions that are covered by the embossing die or dies are at least partially cured thermally, and thereafter the embossing die or dies are removed and, in case places are present in the coating layer that are not yet cured, these are completely cured thermally.

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6. Process according to Claim 1, characterised in that the curable coating agent is constituted by colourless clear lacquers or colour-imparting and/or effect-imparting coating agents.

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7. Process according to one of the preceding Claims 1 to 5, characterised in that a transparent coating layer is applied before or after the complete curing.

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8. Process according to one of the preceding Claims 1 to 5 or 7, characterised in that a transparent film is applied after the complete curing.

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9. Process according to one of the preceding Claims 1 to 5, 7 or 8, characterised in that it is implemented for the decoration or inscription of motor vehicles or parts thereof.

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- 5 ~~10.~~ Cladding panels, furniture, instrument casings,
household appliances, sports equipment, automobile
bodies and components thereof, vehicles and vehicle
parts with a decorative surface or partial surface,
obtained in accordance with the process of one of
Claims 1 to 5, 7, 8 or 9.

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